

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 212 (Riggs Road) and Metzert Road in Prince George's County. The existing signal heads shall be replaced with LED Traffic Signal heads. The existing left turn and side street detection shall remain the same with the existing pedestrian signal heads being replaced with APS and CPS. MD 212 (Riggs Road) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA six-phase, fully-actuated mode, with the MD 212 (Riggs Road) approaches running concurrently. An Exclusive/Permissive left turn phase shall be provided for Northbound approach of MD 212 (Riggs Road). Countdown pedestrian signal heads with audible pushbutton actuation shall be installed across the north and south leg MD 212 (Riggs Road) and west leg of Metzert Road. The Metzert Road approaches shall operate as a side street split phase.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- SHA signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- APS will function as follows:

FOR MD 212 (RIGGS ROAD)

- When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be "Wait to cross Riggs at Metzert."
- When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

FOR METZEROT ROAD

- When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be "Wait to cross Metzert at Riggs" (Crosswalk angles left)
- When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Brian Young  
Assistant District Engineer - Traffic  
Phone: (301) 513-7318

Mr. Vernon Stinnett Jr.  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

Mr. Augie Rebish  
District Engineer - Utility  
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Chief, Signal Operations  
410-787-7652

Mr. Sonny Bailey  
Chief, Sign Shop  
410-787-7676

The power company representative is:

Mr. Steve Custer  
PEPCO Customer Design  
201 W Gude Dr.  
Rockville, MD 20850  
Phone: 301 548-4333

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

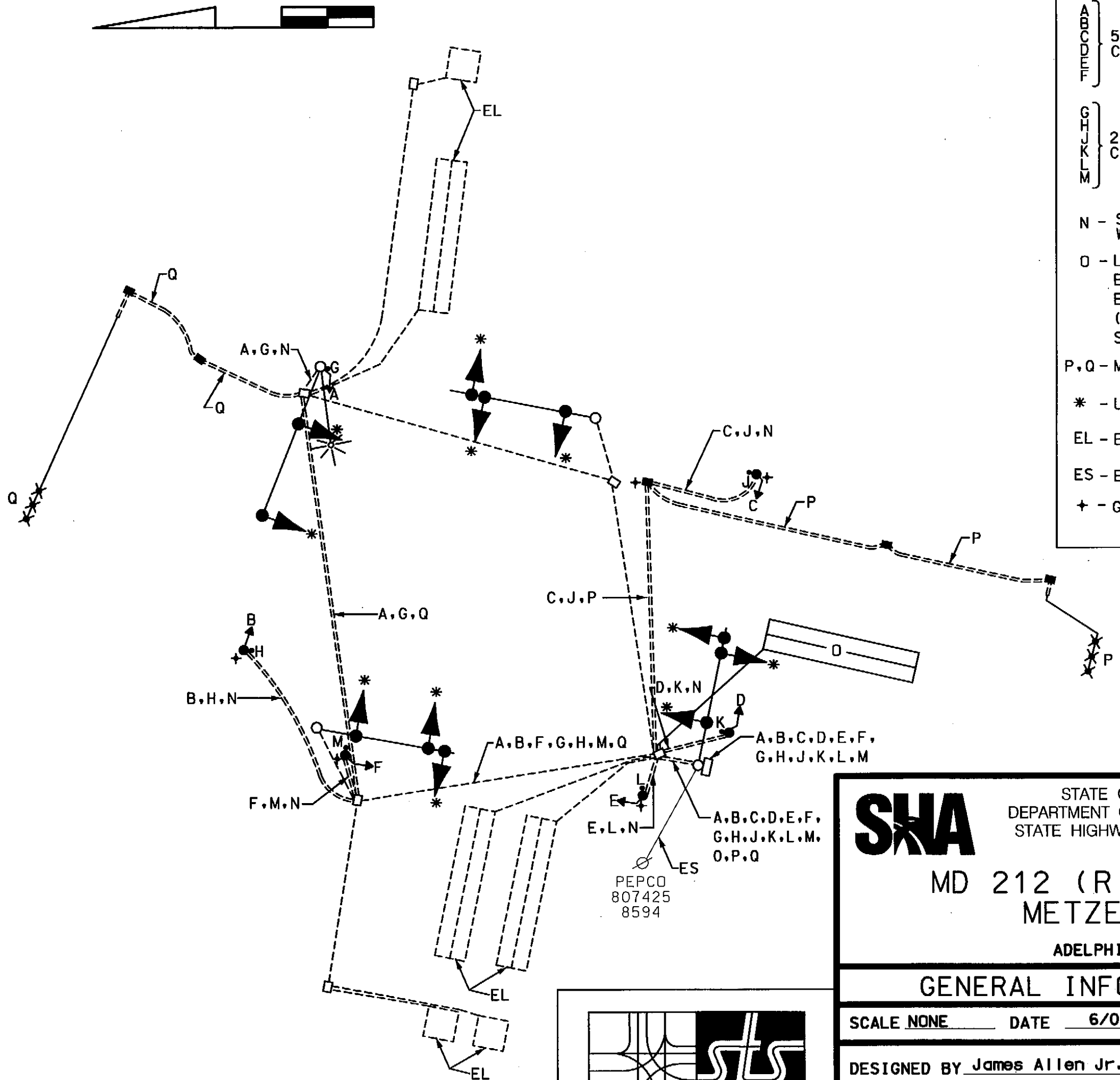
CAT NO.	DESCRIPTION	QUANTITY
1003	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	4 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	400 L.F.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	70 L.F.
5007	Removal of existing permanent pavement line markings	300 L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	350 L.F.
6002	5" concrete sidewalk.	700 S.F.
6003	Detectable warning surfaces for curb ramps.	80 S.F.
8001	2 wire Central Control unit	1 EA
8003	8" LED signal head section.	6 EA
8004	Adjust existing handhole to grade.	1 EA
8007	Audible/tactile pedestrian pushbutton station & signs.	6 EA
8008	Breakaway Pedestal pole (10').	5 EA
8013	LED 16" countdown pedestrian signal head.	6 EA
8019	Microloop probe (any length) lead-in cable up to 1000'	2 EA
8021	Remove and dispose of material & equipment per assignment.	1 EA
8026	1" electrical conduit - galvanized sleeve or flexible liquid tight.	25 L.F.
8033	Schedule 80 rigid PVC conduit up to 4" - slotted.	150 L.F.
8034	Schedule 80 rigid PVC conduit up to 4" - trenched.	770 L.F.
8035	Wood sign supports up to 4"x6"	120 L.F.
8036	Install ground mounted sign (including hardware).	104 S.F.
8040	No. 6 AWG stranded bare copper ground wire.	110 L.F.
8045	Furnish and install electrical handhole.	5 EA
8050	12" LED signal head section.	35 EA
8054	Electrical cable - 2 conductor (No. 14 AWG).	750 L.F.
8056	Electrical cable - 5 conductor (No. 14 AWG).	750 L.F.
8059	Loop wire encased in flexible tubing (No. 14 AWG).	430 L.F.
8060	Saw cut for signal (loop detector).	175 L.F.

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 6	←G-/G	←G-/G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	←Y-/Y	←Y-/Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEAR / COUNTDOWN	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	←Y	←Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	←Y	←Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	WK	WK	DW	DW
PED CLEAR / COUNTDOWN	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	FL/DW	FL/DW	DW	DW
3 ALT CHANGE	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	WK	WK
PED CLEAR / COUNTDOWN	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK



WIRING KEY	
5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	
2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	
N - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	
O - LOOP WIRE (RESPICE TO EXISTING 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED)	
P,Q - MICRO LOOP PROBE	
* - USE EXISTING WIRING	
EL - EXISTING LOOP	
ES - EXISTING POWER SERVICE	
+ - GROUND ROD	

TOD NO:XX445-17  
SHA NO:PG719A5A/B5A  
MD 212 @ METZEROTT RD

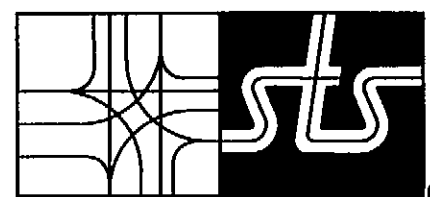
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
**MD 212 (RIGGS ROAD) AND  
METZEROTT ROAD**  
ADELPHI, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 6/09/09 CONTRACT NO. XX4455185

DESIGNED BY James Allen Jr. COUNTY PRINCE GEORGES  
DRAWN BY James Allen Jr. LOGMILE 16021203.60  
CHECKED BY TMS NO. J230  
F.A.P. NO. TOD NO.

TS NO. 683D DRAWING NO. 2 OF 2 SHEET NO. OF



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